

## SEQUENCE LISTING

<110> KOJIMA, SHIN-ICHI  
 ASAKURA, AKIRA  
 FUTATSUGI, TETSUAKI  
 OTA, YUKO  
 FUKUDA, YUKI  
 SAGARA, SHINSUKE

<120> NOVEL INTERFERON-ALPHA

<130> Q65369

<140> 09/889,035  
 <141> 2001-07-11

<150> JP 11-5138  
 <151> 1999-01-12

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Met Ala Leu Ser Phe Ser Leu Leu Met Ala Val Leu Val Leu Ser Tyr	
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aaa tcc atc tgt tct cta ggc tgt gat ctg cct cag acc cac agc ctg	96
Lys Ser Ile Cys Ser Leu Gly Cys Asp Leu Pro Gln Thr His Ser Leu	
20 25 30	

ggt aat agg agg gcc ttg ata ctc ctg gca caa atg gga aga atc tct	144
Gly Asn Arg Arg Ala Leu Ile Leu Ala Gln Met Gly Arg Ile Ser	
35 40 45	

cct ttc tcc tgc ctg aag gac aga cat gat ttc cga atc ccc cag gag	192
Pro Phe Ser Cys Leu Lys Asp Arg His Asp Phe Arg Ile Pro Gln Glu	
50 55 60	

gag ttt gat ggc aac cag ttc cag aag gct caa gcc atc tct gtc ctc	240
Glu Phe Asp Gly Asn Gln Phe Gln Lys Ala Gln Ala Ile Ser Val Leu	
65 70 75 80	

cat gag atg atc cag cag acc ttc aat ctc ttc agc aca gag gac tca	288
His Glu Met Ile Gln Gln Thr Phe Asn Leu Phe Ser Thr Glu Asp Ser	
85 90 95	

tct gct gct tgg gaa cag agc ctc cta gaa aaa ttt tcc act gaa ctt	336
Ser Ala Ala Trp Glu Gln Ser Leu Leu Glu Lys Phe Ser Thr Glu Leu	
100 105 110	

tac cag caa ctg aat gac ctg gaa gca tgt gtg ata cag gag gtt ggg Tyr Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Glu Val Gly 115 120 125	384
gtg gaa gag act ccc ctg atg aat gag gac tcc atc ctg gct gtg agg Val Glu Glu Thr Pro Leu Met Asn Glu Asp Ser Ile Leu Ala Val Arg 130 135 140	432
aaa tac ttc caa aga atc act ctt tat cta ata gag agg aaa tac agc Lys Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Ile Glu Arg Lys Tyr Ser 145 150 155 160	480
cct tgt gcc tgg gag gtt gtc aga gca gaa atc atg aga tcc ctc tcg Pro Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Leu Ser 165 170 175	528
ttt tca aca aac ttg caa aaa aga tta agg agg aag gat Phe Ser Thr Asn Leu Gln Lys Arg Leu Arg Arg Lys Asp 180 185	567
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aga cat gat ttc cga atc ccc cag gag gag ttt gat ggc aac cag ttc Arg His Asp Phe Arg Ile Pro Gln Glu Phe Asp Gly Asn Gln Phe 35 40 45	144
cag aag gct caa gcc atc tct gtc ctc cat gag atg atc cag cag acc Gln Lys Ala Gln Ala Ile Ser Val Leu His Glu Met Ile Gln Gln Thr 50 55 60	192
ttc aat ctc ttc agc aca gag gac tca tct gct gct tgg gaa cag agc Phe Asn Leu Phe Ser Thr Glu Asp Ser Ser Ala Ala Trp Glu Gln Ser 65 70 75 80	240
ctc cta gaa aaa ttt tcc act gaa ctt tac cag caa ctg aat gac ctg Leu Leu Glu Lys Phe Ser Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu 85 90 95	288
gaa gca tgt gtg ata cag gag gtt ggg gtg gaa gag act ccc ctg atg Glu Ala Cys Val Ile Gln Glu Val Gly Val Glu Glu Thr Pro Leu Met 100 105 110	336
aat gag gac tcc atc ctg gct gtg agg aaa tac ttc caa aga atc act Asn Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr Phe Gln Arg Ile Thr 115 120 125	384

ctt tat cta ata gag agg aaa tac agc cct tgt gcc tgg gag gtt gtc		432	
Leu Tyr Leu Ile Glu Arg Lys Tyr Ser Pro Cys Ala Trp Glu Val Val			
130	135	140	
aga gca gaa atc atg aga tcc ctc tcg ttt tca aca aac ttg caa aaa		480	
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Gly Asn Arg Arg Ala Leu Ile Leu Leu Ala Gln Met Gly Arg Ile Ser			
35	40	45	
Pro Phe Ser Cys Leu Lys Asp Arg His Asp Phe Arg Ile Pro Gln Glu			
50	55	60	
Glu Phe Asp Gly Asn Gln Phe Gln Lys Ala Gln Ala Ile Ser Val Leu			
65	70	75	80
His Glu Met Ile Gln Gln Thr Phe Asn Leu Phe Ser Thr Glu Asp Ser			
85	90	95	
Ser Ala Ala Trp Glu Gln Ser Leu Leu Glu Lys Phe Ser Thr Glu Leu			
100	105	110	
Tyr Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Glu Val Gly			
115	120	125	
Val Glu Glu Thr Pro Leu Met Asn Glu Asp Ser Ile Leu Ala Val Arg			
130	135	140	
Lys Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Ile Glu Arg Lys Tyr Ser			
145	150	155	160
Pro Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Leu Ser			
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Phe Ser Thr Asn Leu Gln Lys Arg Leu Arg Arg Lys Asp			
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 20 25 30

Arg His Asp Phe Arg Ile Pro Gln Glu Glu Phe Asp Gly Asn Gln Phe  
 35 40 45

Gln Lys Ala Gln Ala Ile Ser Val Leu His Glu Met Ile Gln Gln Thr  
 50 55 60

Phe Asn Leu Phe Ser Thr Glu Asp Ser Ser Ala Ala Trp Glu Gln Ser  
 65 70 75 80

Leu Leu Glu Lys Phe Ser Thr Glu Leu Tyr Gln Gln Leu Asn Asp Leu  
 85 90 95

Glu Ala Cys Val Ile Gln Glu Val Gly Val Glu Glu Thr Pro Leu Met  
 100 105 110

Asn Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr Phe Gln Arg Ile Thr  
 115 120 125

Leu Tyr Leu Ile Glu Arg Lys Tyr Ser Pro Cys Ala Trp Glu Val Val  
 130 135 140

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 145 150 155 160

Arg Leu Arg Arg Lys Asp  
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Arg His Asp Phe Xaa Ile Pro Gln  
35 40

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